

Claims

- [c1] An air delivery system for a vehicle comprising:
at least one air plenum;
at least one coupling joint coupled to said at least one air plenum and residing between and is hidden with respect to a line-of-sight of a vehicle occupant in a normal seated position by overlapping sections of a vehicle housing; and
at least one air transfer device passing air through said at least one air plenum and said at least one coupling joint.
- [c2] A system as in claim 1 wherein said overlapping sections comprise:
a first section; and
a second section that overlaps said first portion.
- [c3] A system as in claim 2 further comprising at least one vent coupled to said at least one coupling joint.
- [c4] A system as in claim 3 wherein said at least one vent extends along and resides within said at least one coupling joint.

- [c5] A system as in claim 2 wherein said second section overlaps said first section such that an air outlet of said at least one air plenum is hidden with respect to a normally seated occupant line-of-sight.
- [c6] A system as in claim 2 wherein an upper portion of said first section is recessed relative to a lower portion of said second section.
- [c7] A system as in claim 2 wherein said first section and said second section are integrally formed as a single module.
- [c8] A system as in claim 1 wherein said vehicle housing is selected from at least one of a dashboard housing, a center console housing, a pillar housing, and a door panel housing.
- [c9] A system as in claim 1 further comprising at least one air flow adjustment device adjusting at least one of the direction of air flow out from said at least one air plenum and the amount of air flow through said at least one plenum.
- [c10] A system as in claim 1 further comprising a controller coupled to said air transfer device and controlling at least one parameter selected from temperature, pressure, volume, and type, of air flowing through said at least one air plenum.

- [c11] A system as in claim 1 wherein said at least one air plenum comprises an output with an outer edge that is at an angle of approximately between 30°–60° relative to a horizontal plane of the vehicle, said air plenum directing air toward a seat system of the vehicle.
- [c12] A system as in claim 1 wherein said at least one air plenum extends along said at least one coupling joint.
- [c13] A system as in claim 1 further comprising at least one coupling member attaching said at least one air plenum to said at least one coupling joint.
- [c14] A system as in claim 13 wherein said at least one coupling member is selected from at least one of a clip, a tab, a bracket, a socket, a press-fit fitting, a tree fastener, and a fastener.
- [c15] A dashboard assembly for a vehicle comprising:
at least one air plenum;
at least one coupling joint coupled to said at least one air plenum and residing between an upper housing and a lower housing, said upper housing overlapping said lower housing to hide said at least one coupling joint;
and
at least one air transfer device passing air through said at least one air plenum, said at least one coupling joint,

and into an interior cabin of the vehicle.

[c16] A dashboard assembly as in claim 15 wherein said upper housing overlaps said lower housing such that an air outlet of said at least one air plenum is hidden with respect to a normally seated occupant line-of-sight.

[c17] A dashboard assembly as in claim 15 further comprising at least one vent coupled to said at least one coupling joint.

[c18] A dashboard assembly as in claim 17 wherein said upper housing overlaps said lower housing such that said at least one vent is hidden with respect to a normally seated occupant line-of-sight.

[c19] A vehicle interior assembly comprising:
at least one air plenum;
a dashboard having an upper housing that overlaps a lower housing to hide said at least one air plenum;
at least one coupling joint coupled to said at least one air plenum and residing between said upper housing and said lower housing; and
at least one air transfer device passing air through said at least one air plenum, said at least one coupling joint, and into an interior cabin.

[c20] An interior assembly as in claim 19 further comprising at

least one vent coupled to said at least one coupling joint.